



(12) **United States Patent**
Smith et al.

- (54) **DEVICE FOR SECURING CURTAIN ENDS
TO WALLS**

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(51) **Int. Cl.**
F16B 2/22 (2006.01)
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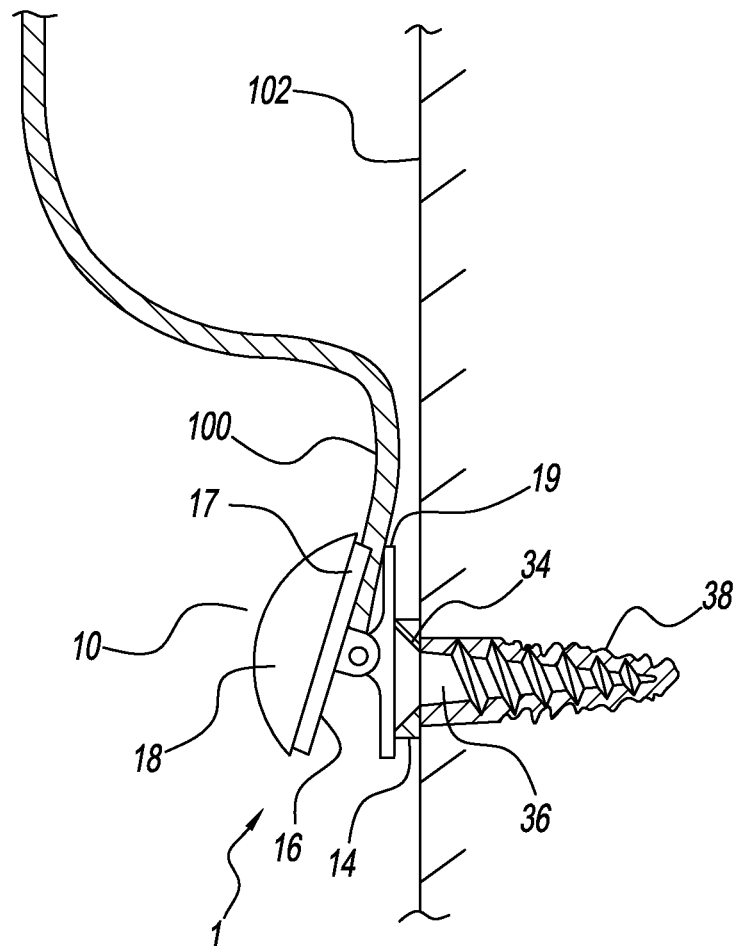


FIG. 1

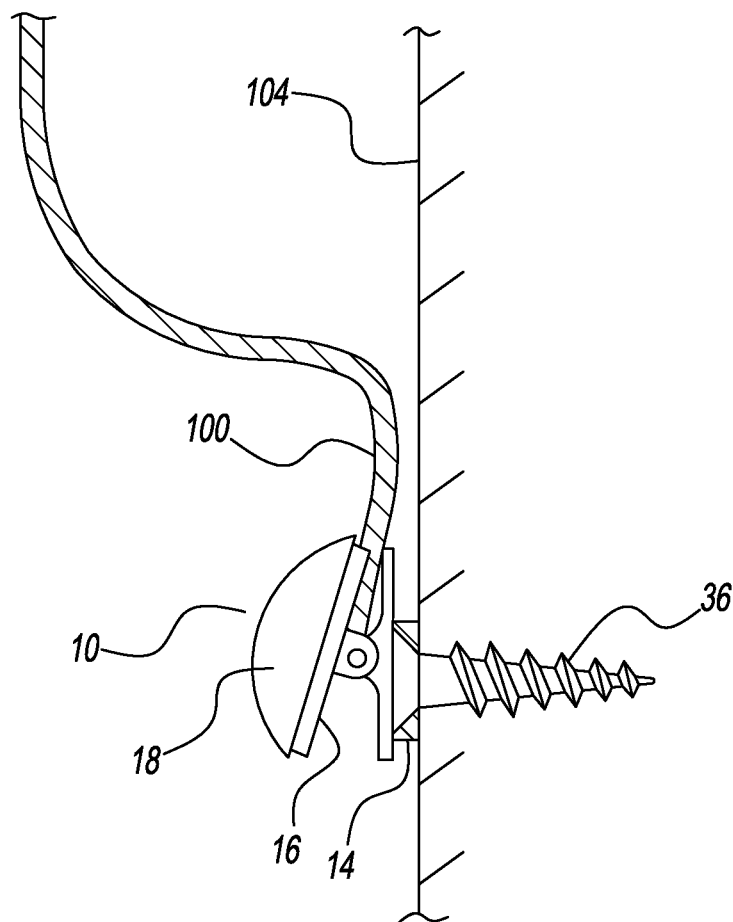


FIG. 2

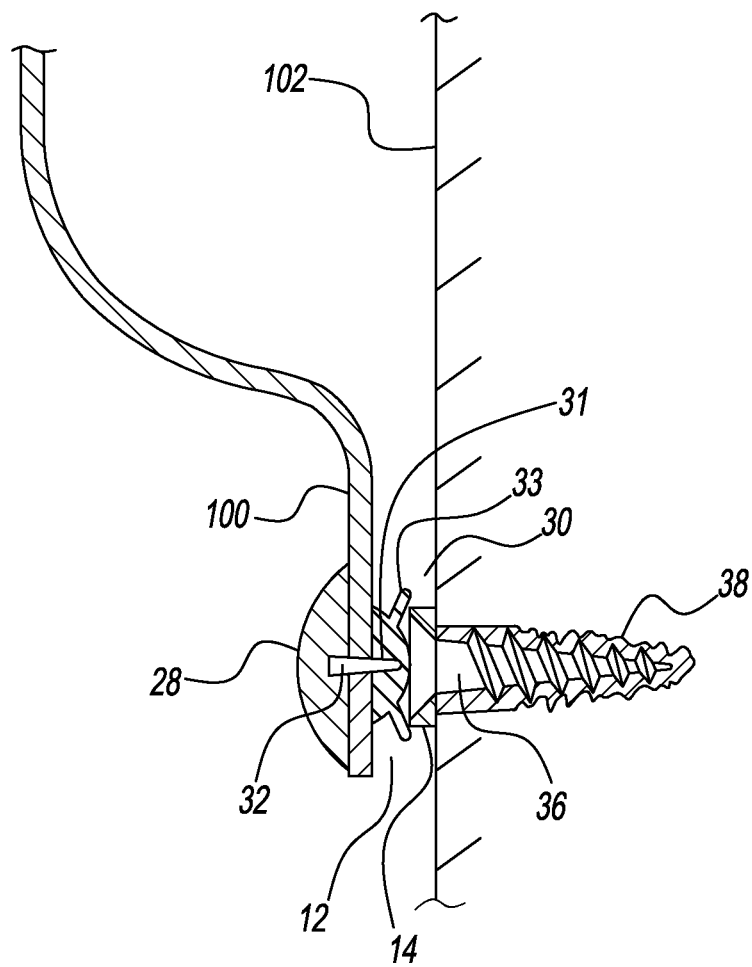


FIG. 3

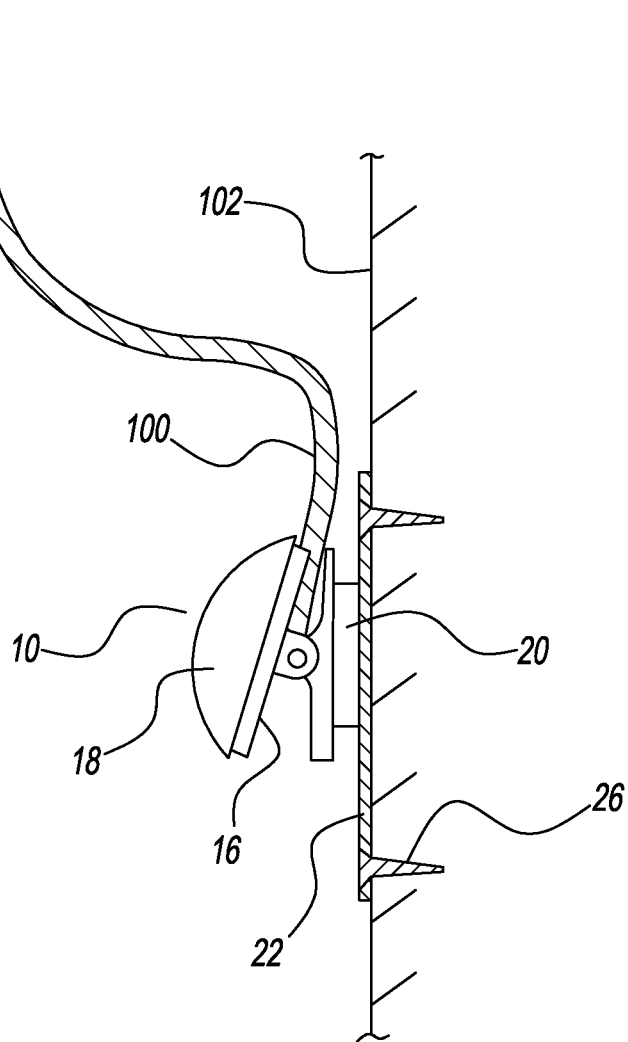


FIG. 4

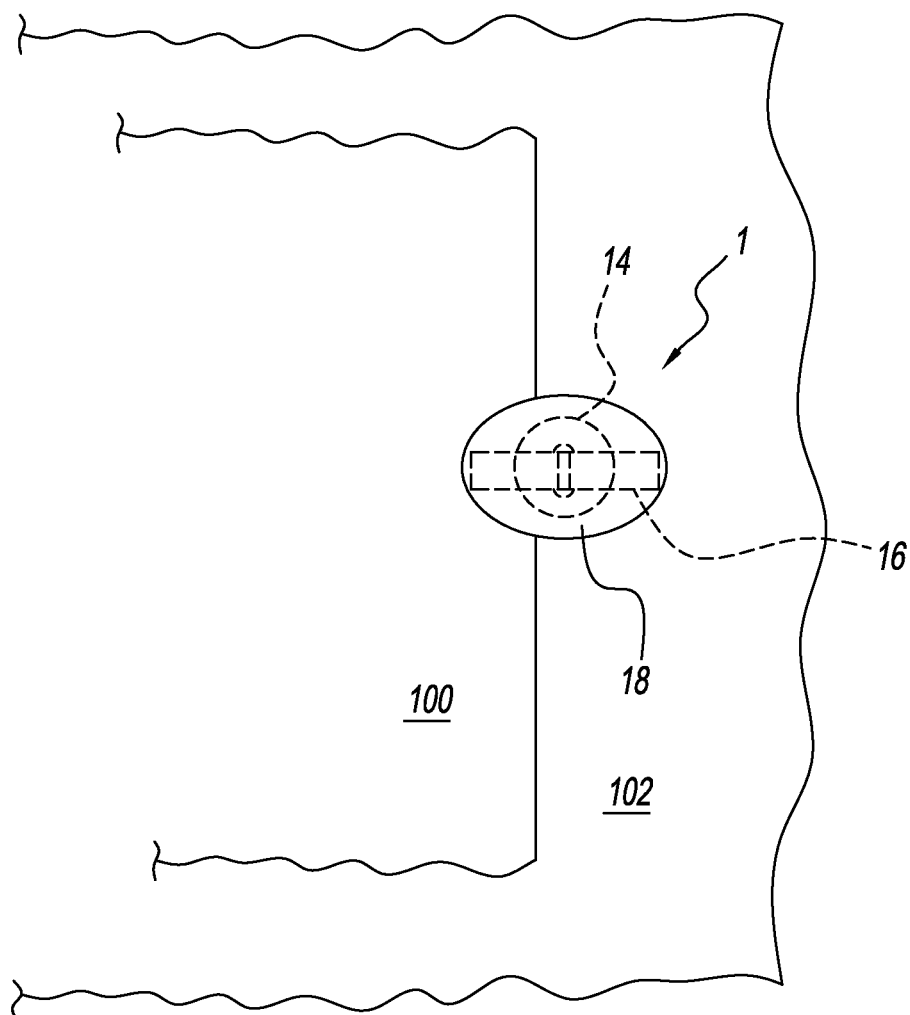


FIG. 5

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DEVICE FOR SECURING CURTAIN ENDS TO WALLS

CROSS-REFERENCES TO RELATED APPLICATIONS

This is a utility patent application taking priority from provisional application No. 61/838,704 filed on Jun. 24, 2013.

BACKGROUND OF THE INVENTION

1. Field of the Invention

The present invention relates generally to window treatments and more specifically to a device for securing curtain ends to walls, which reduces energy costs; blocks unwanted light; and enhances privacy.

2. Discussion of the Prior Art

Conventional curtains do not rest flush against a wall, creating a draft and allowing undesirable hot or cold air to enter or escape a building. This can lead to higher energy costs and an increased consumption of natural resources. Additionally, unwanted light can shine into rooms through gaps between the curtain and the wall, making it difficult to sleep. If the gap is significant, it may also compromise privacy.

Accordingly, there is a clearly felt need in the art for a device for securing curtains ends to walls, which reduces energy costs from leaky windows; blocks unwanted light during night and day; and prevents peeking into a room through a window.

SUMMARY OF THE INVENTION

The present invention provides a device for securing curtain ends to walls, which reduces energy costs; blocks unwanted light; and enhances privacy. The device for securing curtain ends to walls (curtain end-securing device) preferably includes a curtain retention device and a magnet. The curtain retention device could be a curtain retention clip or a butterfly clutch pin. The curtain retention clip includes a spring-loaded clip and a decorative fascia. The spring-loaded clip must be fabricated from a ferrous material. Alternatively, a clip magnet may be secured to a rear of the spring-loaded clip and a decorative ferrous wall plate attached to a wall, adjacent the clip magnet position. The butterfly clutch pin includes a decorative tack pin and a butterfly retention clutch. A pin portion extends from a rear of the decorative tack pin. The butterfly retention clutch includes a pin receiver and a pair of release tabs. The butterfly retention clutch must be fabricated from a ferrous material. The magnet includes a magnet fastener hole, if a threaded fastener or nail is used for retaining the magnet against the wall. The magnet is attached to a wall with a threaded fastener; a nail; a hook and loop fastener, adhesive double-sided tape or any other suitable attachment method. The fastener would be used in conjunction with a drywall anchor for drywall. A wall anchor for wood or other dense materials is not needed.

The magnet is secured to a wall in the area where it is desired for the curtain to be in contact with a wall. If a threaded fastener is used to secure the magnet to the drywall, a hole is drilled in the wall for the drywall anchor. The drywall anchor is then pounded into the wall. The threaded fastener is inserted through the magnet fastener hole and threaded into the drywall anchor or directly into wood or other dense materials.

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If the curtain retention clip is used, the spring-loaded clip is secured to the curtain and the spring-loaded clip is brought in contact with the magnet. If the butterfly clutch pin is used, the pin portion of the decorative tack pin is inserted through the curtain and the pair of release tabs are depressed to receive the pin portion. A rear of the butterfly retention clutch is brought in contact with the magnet.

Accordingly, it is an object of the present invention to provide a curtain end-securing device, which reduces energy costs from leaky windows.

It is another object of the present invention to provide a curtain end-securing device, which blocks unwanted light during night and day.

Finally, it is another object of the present invention to provide a curtain end-securing device, which prevents peeking into a room through a window.

These and additional objects, advantages, features and benefits of the present invention will become apparent from the following specification.

BRIEF DESCRIPTION OF THE DRAWINGS

FIG. 1 is a top cross sectional view of a curtain end-securing device retaining a curtain end and secured to drywall in accordance with the present invention.

FIG. 2 is a top cross sectional view of a curtain end-securing device retaining a curtain end and secured to wood or a dense material in accordance with the present invention.

FIG. 3 is a top cross sectional view of a curtain end-securing device with a butterfly clutch pin retaining a curtain end and secured to drywall in accordance with the present invention.

FIG. 4 is a top cross sectional view of a curtain end-securing device with a magnet attached to a spring-loaded clip and a decorative ferrous plate retaining a curtain end in accordance with the present invention.

FIG. 5 is a front view of a curtain end-securing device retaining a curtain end and secured to drywall, wood or a dense material in accordance with the present invention.

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENTS

With reference now to the drawings, and particularly to FIG. 1, there is shown a top cross sectional view of a curtain end-securing device 1 retaining a curtain end 100 and secured to drywall 102. With reference to FIG. 5, the curtain end-securing device 1 preferably includes a curtain retention device and a magnet 14. With reference to FIG. 3, the curtain retention device could be a curtain retention clip 10 or a butterfly clutch pin 12. The curtain retention clip 10 includes a spring-loaded clip 16 and a decorative fascia 18. The spring-loaded clip 16 includes a first leg 17, a second leg 19 and a spring (not shown). One end of the first leg 17 is biased toward one end of the second leg 19 with the spring. The second leg 19 must be fabricated from a ferrous material, so it can be attracted to the magnet 14. With reference to FIG. 4, a clip magnet 20 may be secured to the second leg 19 and a decorative ferrous wall plate 22 attached to the drywall 102, adjacent the clip magnet 18 position. The decorative ferrous wall plate 22 may be attached to the drywall 102 with fasteners 26 or any other suitable attachment method.

With reference to FIG. 3, the butterfly clutch pin 12 includes a decorative tack pin 28 and a butterfly retention clutch 30. A pin portion 32 extends from a rear of the decorative tack pin 22. The butterfly retention clutch 30 includes a pin receiver 31 and a pair of release tabs 33. The

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pair of release tabs **33** are pulled to receive and retain the pin portion **32** in the pin receiver **31**. The butterfly retention clutch **30** must be fabricated from a ferrous material. Butterfly clutch pins are well known in the art and need not be explained in further detail.

The magnet **14** includes a magnet fastener hole **34**, if a threaded fastener **36** or nail is used for retaining the magnet against the drywall **102**. The magnet **14** is attached to the wall with a threaded fastener; a nail; a hook and loop fastener, adhesive double-sided tape or any other suitable attachment method. The fastener **36** would be used in conjunction with a drywall anchor **38** for the drywall **102**. With reference to FIG. 2, a wall anchor for wood **104** or other dense materials is not needed. The magnet **14** is secured to the drywall **102** or wood **104** in the area where it is desired for the curtain end **100** to be in contact with the drywall **102**. If a threaded fastener is used to secure the magnet **14** to the drywall **102**, a hole is drilled in the drywall **102** for the drywall anchor **38**. The drywall anchor **38** is then pounded into the drywall **102**. The threaded fastener **36** is inserted through the magnet fastener hole **34** and threaded into the drywall anchor **38** or directly into wood **104** or other dense materials.

If the curtain retention clip **10** is used, the spring-loaded clip **16** is secured to the curtain end **100** and the second leg is brought in contact with the magnet **14**. If the butterfly clutch pin **12** is used, the pin portion **32** of the decorative tack pin **28** is inserted through the curtain end **100** and the butterfly retention clutch **30** is depressed to receive the pin portion **32**. A rear of the butterfly retention clutch **30** is brought in contact with the magnet **14**.

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While particular embodiments of the invention have been shown and described, it will be obvious to those skilled in the art that changes and modifications may be made without departing from the invention in its broader aspects, and therefore, the aim in the appended claims is to cover all such changes and modifications as fall within the true spirit and scope of the invention.

We claim:

1. A curtain end-securing device comprising:
an ornamental tack pin includes a pin portion extending from a rear thereof;
- a butterfly retention clutch includes a pin receiver and a pair of release tabs, said pair of release tabs are fabricated from a ferrous material; and
- a magnet is secured to a wall, wherein said pin portion is inserted through a curtain end, said ornamental tack pin is positioned outward from the curtain end, said pair of release tabs are pulled to receive and retain said pin portion in said pin receiver, said pair of release tabs are magnetically retained against said magnet.
2. The curtain end-securing device of claim 1 wherein:
a hole is formed through in said magnet to receive a fastener.
3. The curtain end-securing device of claim 2 wherein:
a drywall anchor is inserted into the wall, said fastener is threaded into said drywall anchor.
4. The curtain end-securing device of claim 1 wherein:
a countersunk hole is formed through said magnet to receive a fastener, a head of said fastener is substantially flush with said magnet, said pair of release tabs are magnetically retained by said magnet.

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